

CLAIMS

[1] Refrigeration equipment provided with a refrigeration unit that includes a compressor, a condenser, an expanding mechanism, and an evaporator, and that has a refrigerating performance able to meet a plurality of refrigerating specifications, wherein the refrigeration unit can be controlled based on the individual programs of the refrigerating specifications, characterized by control means storing a desired one of the programs of the refrigerating specifications and being capable of executing said one program.

[2] The refrigeration equipment according to claim 1, characterized in that the control means stores all of the programs of the refrigerating specifications and is capable of executing a desired one of the programs.

[3] A refrigerating storage cabinet in which a heat insulating housing is provided with a refrigeration unit that includes a compressor, a condenser, an expanding mechanism, and an evaporator, and that has a refrigerating performance able to meet a plurality of refrigerating specifications, wherein the refrigeration unit can be controlled based on the individual programs of the refrigerating specifications, characterized by control means storing a desired one of the programs of the refrigerating specifications and being

capable of executing said one program.

[4] The refrigerating storage cabinet according to claim 3, characterized in that the control means stores all of the programs of the refrigerating specifications and is capable of executing a desired one of the programs.

[5] The refrigerating storage cabinet according to claim 3 or 4, characterized in that the heat insulating housing has an opening in which a condensation-preventing heater is provided with variable heating performance, and switching means is provided capable of switching the heating performance of the heater so that the heating performance corresponds to the refrigerating specification.

[6] The refrigerating storage cabinet according to claim 4 or 5, characterized in that the refrigeration unit provided with the control means is detachably attachable to the heat insulating housing, that identifying means is provided for determining the refrigerating specification of the heat insulating housing to which the refrigeration unit is attached, and that the control means is capable of selecting and executing a corresponding one of the stored programs based on an identification signal from the identifying means.

[7] The refrigerating storage cabinet according to claim 6, characterized in that two refrigerating

specifications are provided and the identifying means includes a detecting portion, provided on the refrigeration unit side and comprising means for detecting a presence or an absence of a detected portion, provided on the heat insulating housing side, when the refrigeration unit is attached to the heat insulating housing.

[8] The refrigerating storage cabinet according to claim 6, characterized in that the identifying means includes a set internal temperature input section to which a set internal temperature of the heat insulating housing is input, and has a function of selecting the refrigerating specification based upon the set internal temperature input.

[9] The refrigerating storage cabinet according to claim 6, characterized in that the identifying means includes a signal recording section, provided on the heat insulating housing for recording an identification signal for the refrigeration specification, and a reading section, which is capable of reading the identification signal of the signal recording section and inputting the identification signal to the control means.

[10] The refrigerating storage cabinet according to any one of claims 6 to 9, characterized in that the heat insulating housing is provided with an information recording section, in which supplementary information, including a size of the

heat insulating housing and a heat invasion amount characteristic, is recorded, and information conveying means, reading the information of the information recording section and conveying the information to the control means.

[11] The refrigerating storage cabinet according to any one of claims 3 to 10, characterized in that the refrigerating specifications include two refrigerating specifications, for refrigeration and freezing.

[12] The refrigerating storage cabinet according to any one of claims 3 to 11, characterized in that:

the refrigerating storage cabinet carries out pull down cooling, in which an internal atmosphere is refrigerated so that the internal temperature is decreased from a high temperature, higher than a set temperature, to near the set temperature, and control refrigeration, in which when the internal temperature has risen to an upper limit temperature, higher by a predetermined value than the set temperature, the refrigeration unit is operated, and when the internal temperature has dropped to a lower limit temperature, lower by a predetermined value than the set temperature, the refrigeration unit is stopped, the refrigeration unit being repeatedly operated and stopped so that the internal temperature is maintained about the set temperature;

the program controls the operation of the refrigerating unit in each of the pull down cooling range and the control

refrigeration range so that a physical amount with respect to refrigeration, including the internal temperature, is reduced by following a refrigeration characteristic indicative of a time-varying change mode of lowering the physical amount; and

a plurality of pull down cooling characteristics and/or a plurality of control refrigeration characteristics are provided and each refrigeration characteristic is selectively read according to a condition or the like.